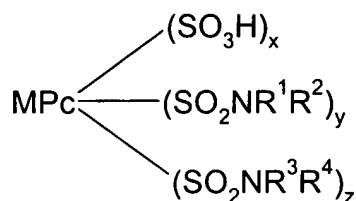


IN THE CLAIMS

1. (original): A composition comprising:

(a) a major dye component which is a mixture of phthalocyanine dyes of Formula (1) and salts thereof:

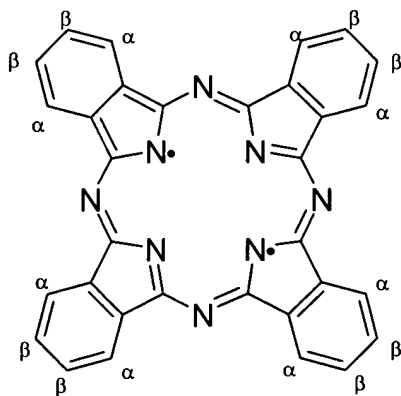


Formula (1)

wherein:

M is Cu or Ni;

Pc represents a phthalocyanine nucleus of formula;



R^1 and R^2 independently are H or optionally substituted C_{1-4} alkyl;

R^3 is H or optionally substituted hydrocarbyl; and

R^4 is optionally substituted hydrocarbyl; or

R^3 and R^4 together with the nitrogen atom to which they are attached represent an optionally substituted aliphatic or aromatic ring system;

x is 0.1 to 3.8;

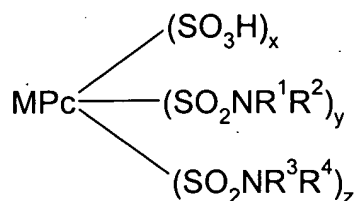
y is 0.1 to 3.8;

z is 0.1 to 3.8;

the sum of (x+y+z) is 4; and
the substituents, represented by x, y and z, are attached only to a β -position on the phthalocyanine ring; and
(b) a liquid medium which comprises water and an organic solvent or an organic solvent free from water.

2. (original): A composition according to claim 1 comprising:

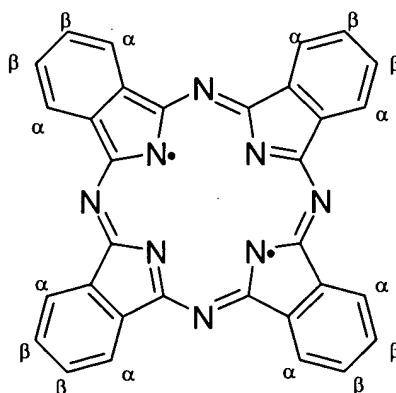
(a) a major dye component which is a mixture of phthalocyanine dyes of Formula (1) and salts thereof:



Formula (1)

wherein:

M is Cu or Ni;
Pc represents a phthalocyanine nucleus of formula;



R^1 and R^2 independently are H or optionally substituted C_{1-4} alkyl;
 R^3 is H or optionally substituted hydrocarbyl; and
 R^4 is optionally substituted hydrocarbyl; or

R^3 and R^4 together with the nitrogen atom to which they are attached represent an optionally substituted aliphatic or aromatic ring system;

x is 0.1 to 3.8;

y is 0.1 to 3.8;

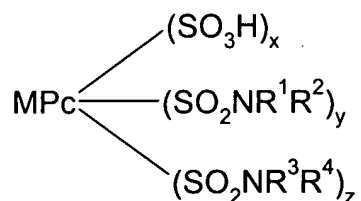
z is 0.1 to 3.8;

the sum of (x+y+z) is 4; and

the substituents, represented by x, y and z, are attached only to a β -position on the phthalocyanine ring and the mixture of phthalocyanine dyes of Formula (1) are obtainable by a process which comprises cyclisation of appropriate β -sulfo substituted phthalic acid, phthalonitrile, iminoisoindoline, phthalic anhydride, phthalimide or phthalamide in the presence of a suitable nitrogen source (if required), a copper or nickel salt and a base followed by chlorination and then amination/amidation; and
(b) a liquid medium which comprises water and an organic solvent or an organic solvent free from water.

3. (original): A composition according to either claim 1 or claim 2 comprising:

(a) a major dye component which is a mixture of phthalocyanine dyes of Formula (1) and salts thereof:

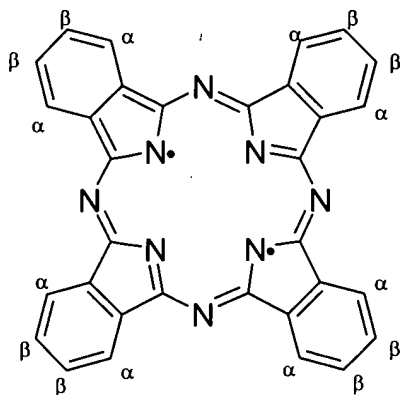


Formula (1)

wherein:

M is Cu or Ni;

Pc represents a phthalocyanine nucleus of formula;



R^1 and R^2 independently are H or optionally substituted C_{1-4} alkyl;

R^3 is H or optionally substituted hydrocarbyl; and

R^4 is optionally substituted hydrocarbyl; or

R^3 and R^4 together with the nitrogen atom to which they are attached represent an optionally substituted aliphatic or aromatic ring system;

x is 0.1 to 3.8;

y is 0.1 to 3.8;

z is 0.1 to 3.8;

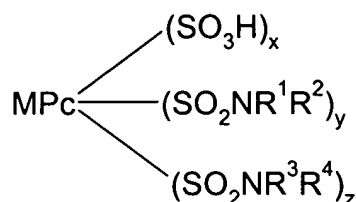
the sum of (x+y+z) is 4; and

the substituents, represented by x, y and z, are attached only to a β -position on the phthalocyanine ring and the mixture of phthalocyanine dyes of Formula (1) are obtainable by cyclisation of 4-sulfo-phthalic acid in the presence of a nitrogen source a copper or nickel salt and a base to give phthalocyanine β -tetrasulfonic acid which is then chlorinated and the sulfonyl chloride groups so formed are reacted with compounds of formula HNR^1R^2 and HNR^3R^4 wherein R^1 , R^2 , R^3 and R^4 are as hereinbefore defined; and

(b) a liquid medium which comprises water and an organic solvent or an organic solvent free from water.

4. (original): A composition according to claim 1 comprising:

(a) a mixture of phthalocyanine dyes of Formula (1) and salts thereof:



Formula (1)

wherein:

M is Cu or Ni;

Pc represents a phthalocyanine nucleus;

R¹ and R² independently are H or optionally substituted C₁₋₄alkyl;

R³ is H or methyl;

R⁴ is optionally substituted hydrocarbyl; or

R³ and R⁴ together with the nitrogen atom to which they are attached represent an optionally substituted aliphatic or aromatic ring system;

x is 0.1 to 3.8;

y is 0.1 to 3.8;

z is 0.1 to 3.8;

the sum of (x+y+z) is 4; and

the substituents, represented by x, y and z, are attached only to a β-position on the phthalocyanine ring and the mixture of phthalocyanine dyes of Formula (1) are obtainable by a process which comprises cyclisation of appropriate β substituted phthalic acid, phthalonitrile, iminoisoindoline, phthalic anhydride, phthalimide or phthalamide in the presence of a suitable copper or nickel salt followed by chlorination and then amination/amidation; and
(b) a medium which comprises water and an organic solvent or an organic solvent free from water.

5. (currently amended): A composition according to ~~any one of the preceding claims~~ claim 1 or claim 2 wherein M is Cu.

6. (currently amended): A composition according to ~~any one of the preceding claims~~ claim 1 or claim 2 wherein x has a value of 0.5 to 3.5, y has a value of 0.5 to 3.5 and z has a value of 0.5 to 3.5.

7. (currently amended): A composition according to ~~any one of the preceding claims~~ claim 1 or claim 2 wherein R¹, R² and R³ are independently H or methyl and R⁴ is optionally substituted aryl.
8. (currently amended): A composition according to ~~any one of the preceding claims~~ claim 1 or claim 2 wherein R⁴ is phenyl bearing at least one sulfo, carboxy or phosphato substituent and having further optional substituents.
9. (currently amended): A composition according to ~~any one of the preceding claims~~ claim 1 or claim 2 wherein R⁴ is phenyl bearing a single sulfo substituent.
10. (currently amended): A composition according to ~~any one of claims 1 to 6~~ claim 1 or claim 2 wherein R¹ and R² independently are H or methyl and R³ and R⁴ together with the nitrogen atom to which they are attached represent an optionally substituted 3 to 8 membered aliphatic or aromatic ring.
11. (currently amended): A composition according to ~~any one of claims 1 to 6~~ claim 1 or claim 2 wherein R¹ and R² independently are H or methyl, R³ is H or optionally substituted C₁₋₈alkyl and R⁴ is optionally substituted C₁₋₈alkyl.
12. (original): A composition according to claim 11 wherein R¹ and R² are H, R³ is H or C₁₋₄alkyl bearing at least one acid substituent selected from the group consisting of -SO₃H, -COOH or -PO₃H₂ and R⁴ is C₁₋₄alkyl bearing at least one acid substituent selected from the group consisting of -SO₃H, -COOH or -PO₃H₂.
13. (currently amended): A composition according to ~~any one of claims 1 to 11~~ claim 1 or claim 2 wherein R¹ and R² are H.
14. (currently amended): A composition according to claim 11 ~~or claim 12~~ wherein R¹, R² and R³ are H, R⁴ is -CH₂CH₂SO₃H and y is less than 1.
15. (original): A composition according to claim 11 wherein R¹ is H, R² is CH₃, R³ is H and R⁴ is -CH₂CH₂SO₃H.

16. (original): A composition according to claim 11 wherein R^1 and R^2 are CH_3 , R^3 is H and R^4 is $-CH_2CH_2SO_3H$.

17. (currently amended): A composition according to ~~any one of the preceding claims~~ claim 1 or claim 2 wherein at least 70% by weight of the total amount of phthalocyanine dye is of Formula (1).

18. (original): A composition according to claim 17 wherein at least 90% by weight of the total amount of phthalocyanine dye is of Formula (1).

19. (currently amended): A composition according to ~~any one of the preceding claims~~ claim 1 or claim 2 wherein the dyes of Formula(1) are free from fibre reactive groups.

20. (currently amended): A composition according to ~~any one of the preceding claims~~ claim 1 or claim 2 which comprises:

(a) from 0.1 to 20 parts of compounds of Formula (1); and

(b) from 80 to 99.9 parts of a liquid medium;

wherein all parts are by weight and the number of parts of (a)+(b)=100.

21. (original): A composition according to claim 20 which comprises:

(a) from 0.5 to 15 parts of compounds of Formula (1); and

(b) from 85 to 99.5 parts of a liquid medium;

wherein all parts are by weight and the number of parts of (a)+(b)=100.

22. (original): A composition according to claim 20 which comprises:

(a) from 1 to 5 parts of compounds of Formula (1); and

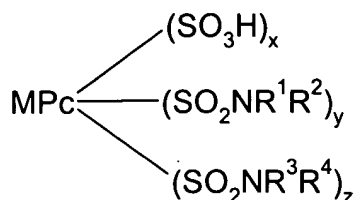
(b) from 95 to 99 parts of a liquid medium;

wherein all parts are by weight and the number of parts of (a)+(b)=100.

23. (currently amended): A composition according to ~~any one of the preceding claims~~ claim 1 or claim 2 wherein the liquid media may contain additional components conventionally used in ink-jet printing inks.

24. (currently amended): A composition according to ~~any one of the preceding claims~~ claim 1 or claim 2 which is an ink suitable for use in an ink-jet printer.

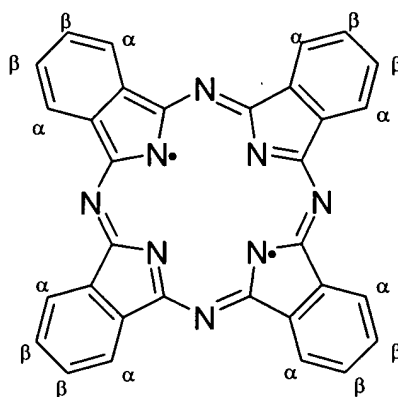
25. (original): A mixture of dyes of Formula (4) and salts thereof:



Formula (4)

wherein:

M is Cu or Ni;
Pc represents a phthalocyanine nucleus of formula;



R^1 and R^2 independently are H or optionally substituted C_{1-4} alkyl;

R^3 is H or optionally substituted C_{1-8} alkyl;

R^4 is optionally substituted C_{1-8} alkyl or phenyl bearing at least one sulfo, carboxy or phosphato substituent and having further optional substituents other than amino or substituted amino; or

R^3 and R^4 together with the nitrogen atom to which they are attached represent an optionally substituted 5- or 6-membered aliphatic or aromatic ring;

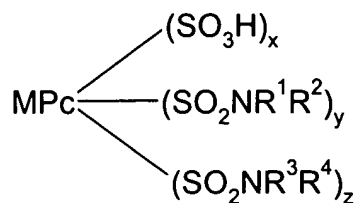
x is 0.1 to 3.8;

y is 0.1 to 3.8;

z is 0.1 to 3.8;

the sum of $(x+y+z)$ is 4; and the substituents, represented by x, y and z, are attached only to a β -position on the phthalocyanine ring.

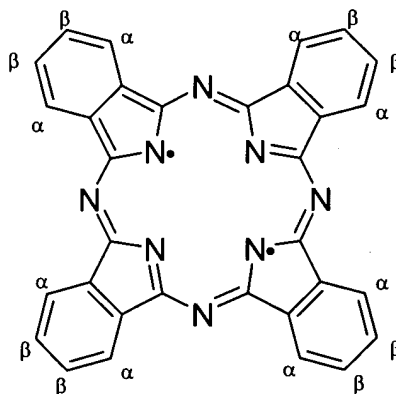
26. (original): A mixture of dyes according to claim 25 of Formula (4) and salts thereof:



Formula (4)

wherein:

M is Cu or Ni;
Pc represents a phthalocyanine nucleus of formula;



R^1 and R^2 independently are H or optionally substituted C_{1-4} alkyl;

R^3 is H or optionally substituted C_{1-8} alkyl;

R^4 is optionally substituted C_{1-8} alkyl or phenyl bearing at least one sulfo, carboxy or phosphato substituent and having further optional substituents other than amino or substituted amino; or

R^3 and R^4 together with the nitrogen atom to which they are attached represent an optionally substituted 5- or 6-membered aliphatic or aromatic ring;

x is 0.1 to 3.8;

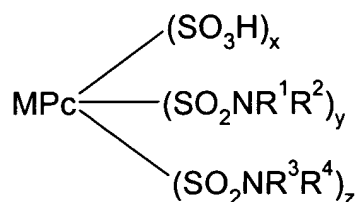
y is 0.1 to 3.8;

z is 0.1 to 3.8;

the sum of $(x+y+z)$ is 4; and the substituents, represented by x, y and z, are attached only to a β -position on the phthalocyanine ring and the mixture of phthalocyanine dyes of Formula (1) are prepared by a process which comprises cyclisation of appropriate β -sulfo substituted phthalic acid, phthalonitrile, iminoisoindoline, phthalic anhydride, phthalimide or

phthalamide in the presence of a suitable nitrogen source (if required), a copper or nickel salt and a base followed by chlorination and then amination/amidation.

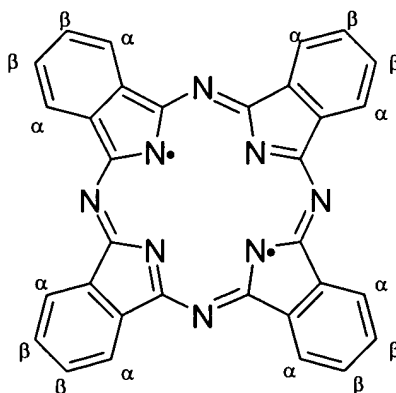
27. (original): A mixture of dyes according to either claim 25 or claim 26 of Formula (2) and salts thereof:



Formula (2)

wherein:

M is Cu;
Pc represents a phthalocyanine nucleus of formula;



R^1 , R^2 and R^3 independently are H or methyl;

R^4 is phenyl bearing at least one sulfo, carboxy or phosphato substituent and having further optional substituents other than amino or substituted amino;

x is 0.5 to 3.5;

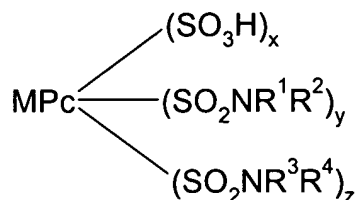
y is 0.5 to 3.5;

z is 0.5 to 3.5;

the sum of (x+y+z) is 4; and the substituents, represented by x, y and z, are attached only to a β-position on the phthalocyanine ring and the mixture of phthalocyanine dyes of Formula (1) are prepared by a process which comprises cyclisation of appropriate β-sulfo substituted phthalic acid, phthalonitrile, iminoisoindoline, phthalic anhydride, phthalimide or phthalamide in the

presence of a suitable nitrogen source (if required), a copper or nickel salt and a base followed by chlorination and then amination/amidation.

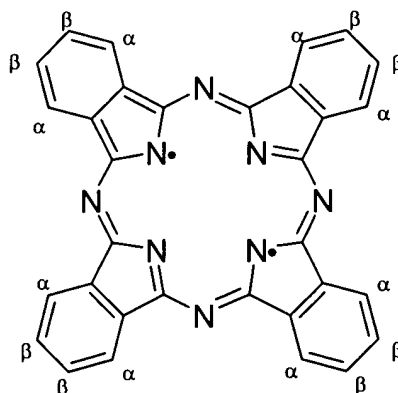
28. (original): A mixture of dyes according to either claim 25 or claim 26 of Formula (3) and salts thereof:



Formula (3)

wherein:

M is Cu;
Pc represents a phthalocyanine nucleus of formula;



R^1 and R^2 independently are H or methyl;

R^3 and R^4 independently are C_{1-4} alkyl bearing at least one acid substituent, selected from the group consisting of $-\text{SO}_3\text{H}$, $-\text{COOH}$ or $-\text{PO}_3\text{H}_2$;

x is 0.5 to 3.5;

y is 0.5 to 3.5;

z is 0.5 to 3.5;

the sum of $(x+y+z)$ is 4; and the substituents, represented by x, y and z, are attached only to a β -position on the phthalocyanine ring and the mixture of phthalocyanine dyes of Formula (1) are prepared by a process which comprises cyclisation of appropriate β^- -sulfo substituted phthalic acid, phthalonitrile, iminoisoindoline, phthalic anhydride, phthalimide or

phthalamide in the presence of a suitable nitrogen source (if required), a copper or nickel salt and a base followed by chlorination and then amination/amidation.

29. (currently amended): A mixture of dyes according to ~~any one of claims 25 to 28~~ claim 25 or claim 26 wherein R^1 and R^2 are H.

30. (original): A mixture of dyes according to either claim 25 or claim 26 wherein R^1 , R^2 and R^3 are H, R^4 is $-\text{CH}_2\text{CH}_2\text{SO}_3\text{H}$ and y is less than 1.

31. A mixture of dyes according to either claim 25 or claim 26 wherein R^1 is H, R^2 is CH_3 , R^3 is H and R^4 is $-\text{CH}_2\text{CH}_2\text{SO}_3\text{H}$.

32. (original): A mixture of dyes according to either claim 25 or claim 26 wherein R^1 and R^2 are CH_3 , R^3 is H and R^4 is $-\text{CH}_2\text{CH}_2\text{SO}_3\text{H}$.

33. (original): A mixture of dyes according to either claim 25 or claim 26 wherein R^1 and R^2 independently are H or methyl and R^3 and R^4 together with the nitrogen atom to which they are attached represent an optionally substituted 3 to 8 membered aliphatic or aromatic ring.

34. (currently amended): A mixture of dyes according to ~~any one of claims 25 to 33~~ claim 25 or claim 26 free from fibre reactive groups.

35. (currently amended): A composition which comprises a major dye component which is a mixture of phthalocyanine dyes of Formula (4), as defined in ~~any one of claims 25 to 34~~ claim 25 or claim 26, and water.

36. (original): A composition according to claim 35 which is an ink suitable for use in an ink-jet printer.

37. (original): A process for forming an image on a substrate comprising applying a composition according to claim 24 or claim 36 thereto by means of an ink-jet printer.

38. (currently amended): A material printed with a composition according to ~~any one of claims 1 to 24, 35 or 36 or a dye according to any one of claims 25 to 34~~ claim 1.

39. (currently amended): A material according to claim 38 which is a photograph printed using ~~a process according to claim 37~~ an ink-jet printer.

40. (original): An ink-jet printer cartridge comprising a chamber and an ink wherein the ink is in the chamber and the ink is according to claim 24 or claim 36.